

# **Sequence Homology Search**

RESULT 1

US-09-782-906-2

; Sequence 2, Application US/09782906

; Patent No. US20010051369A1

; GENERAL INFORMATION:

; APPLICANT: Delagrave, Simon

; APPLICANT: Rittenhouse Pruss, Jennifer L.

; APPLICANT: Murphy, Dennis J.

; APPLICANT: Maffia III, Anthony M.

; APPLICANT: Bylina, Edward J.

; APPLICANT: Coleman, William J.

; TITLE OF INVENTION: Variant Galactose Oxidase, Nucleic Acid Encoding Same,  
And Methods Of

; TITLE OF INVENTION: Using Same

; FILE REFERENCE: HER-0040

; CURRENT APPLICATION NUMBER: US/09/782,906

; CURRENT FILING DATE: 2001-02-14

; PRIOR APPLICATION NUMBER: 60/185,001

; PRIOR FILING DATE: 2000-02-25

; NUMBER OF SEQ ID NOS: 8

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 2

; LENGTH: 639

; TYPE: PRT

; ORGANISM: Dactylium dendroides

US-09-782-906-2

Query Match 94.4%; Score 3425; DB 10; Length 639;

Best Local Similarity 100.0%; Pred. No. 4.2e-255;

Matches 639; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      42 ASAPIGSAISRNNWAVTCDSAQSGNECNKAIDGNKDTFWHTFYGANGDPKPPHTYTTIDMK 101
          |||
Db      1 ASAPIGSAISRNNWAVTCDSAQSGNECNKAIDGNKDTFWHTFYGANGDPKPPHTYTTIDMK 60

Qy     102 TTQNVNGLSMLPRQDGNQNGWIGRHEVYLSSDGTNWGSPVASGSWFADSTTKYSNFETRP 161
          |||
Db      61 TTQNVNGLSMLPRQDGNQNGWIGRHEVYLSSDGTNWGSPVASGSWFADSTTKYSNFETRP 120

Qy     162 ARYVRLVAITEANGQPWTSIAEINVQASSYTAPQPGLGRWGPTIDLPIVAAAAIEPTS 221
          |||
Db     121 ARYVRLVAITEANGQPWTSIAEINVQASSYTAPQPGLGRWGPTIDLPIVAAAAIEPTS 180

Qy     222 GRVLMWSSYRNDAFGGSPGGITLTSSWDPSTGIVSDRTVTVTKHMFCPGISMDGNGQIV 281
          |||
Db     181 GRVLMWSSYRNDAFGGSPGGITLTSSWDPSTGIVSDRTVTVTKHMFCPGISMDGNGQIV 240

Qy     282 VTGGNDAKKTSLYDSSSDSWIPGPDQMVGARYQSSATMSDGRVFTIGGSWSGGVFEKNGE 341
          |||
Db     241 VTGGNDAKKTSLYDSSSDSWIPGPDQMVGARYQSSATMSDGRVFTIGGSWSGGVFEKNGE 300

Qy     342 VYSPSSKTTWTSLPNAKVNPMILTADKQGLYRSDNHAWLFGWKKGSVFQAGPSTAMNYYTS 401
          |||
Db     301 VYSPSSKTTWTSLPNAKVNPMILTADKQGLYRSDNHAWLFGWKKGSVFQAGPSTAMNYYTS 360

Qy     402 GSGDVKSAGKRQSNRGVAPDAMCGNAVMYDAVKGKILTFGGSPDYQSDATNAHIITLG 461
          |||
Db     361 GSGDVKSAGKRQSNRGVAPDAMCGNAVMYDAVKGKILTFGGSPDYQSDATNAHIITLG 420

Qy     462 EPGTSPNTVFASNGLYFARTFHTSVVLPDGGSTFITGGQRRGIPFEDSTPVFTPEIYVPEQ 521
          |||
Db     421 EPGTSPNTVFASNGLYFARTFHTSVVLPDGGSTFITGGQRRGIPFEDSTPVFTPEIYVPEQ 480

Qy     522 DTFYKQNPNSIVRVYHSISLLLPGDRVFNNGGGGLCGDCTTNHFDAQIFTNPNLYNSNGNL 581
          |||
Db     481 DTFYKQNPNSIVRVYHSISLLLPGDRVFNNGGGGLCGDCTTNHFDAQIFTNPNLYNSNGNL 540

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Qy      582 ATRPKITRTSTQSVKVGGRITISTDSSISKASLIRYGTATHTVNTDQRRIPLTLTNNGGN 641
        |||
Db      541 ATRPKITRTSTQSVKVGGRITISTDSSISKASLIRYGTATHTVNTDQRRIPLTLTNNGGN 600
        |||
Qy      642 SYSFQVPSDSGVALPGYWMLFVMNSAGVPSVASTIRVTQ 680
        |||
Db      601 SYSFQVPSDSGVALPGYWMLFVMNSAGVPSVASTIRVTQ 639

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SEQ ID Number 79

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Qy      43 ASAPIGSAISRNNWAVTCDSAQSGNECNKAIDGNKDTFWHTFYGANGDPKPPHTYTTIDMK 102
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 ASAPIGSAISRNNWAVTCDSAQSGNECNKAIDGNKDTFWHTFYGANGDPKPPHTYTTIDMK 60

Qy     103 TTQNVNGLSMLPRQDGNQNGWIGRHEVYLSSDGTNWGSPVASGSWFADSTTKYSNFETRP 162
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      61 TTQNVNGLSMLPRQDGNQNGWIGRHEVYLSSDGTNWGSPVASGSWFADSTTKYSNFETRP 120

Qy     163 ARYVRLVAITEANGQPWTSIAEINVFOASSYTAPQPGLGRWGPTIDLPIVPA AAAIEPTS 222
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     121 ARYVRLVAITEANGQPWTSIAEINVFOASSYTAPQPGLGRWGPTIDLPIVPA AAAIEPTS 180

Qy     223 GRVLMWSSYRNDAFGGSPGGITLTSSWDPSTGIVSDRTVTVTKHMFCPGISMDGNGQIV 282
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     181 GRVLMWSSYRNDAFGGSPGGITLTSSWDPSTGIVSDRTVTVTKHMFCPGISMDGNGQIV 240

Qy     283 VTGGNDAKKTSLYDSSSDSWIPGPD MQVARGYQSSATMSDGRVFTIGGSWSGGVFEKNGE 342
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     241 VTGGNDAKKTSLYDSSSDSWIPGPD MQVARGYQSSATMSDGRVFTIGGSWSGGVFEKNGE 300

Qy     343 VYSPSSKTTWTS L PNAKVNPMLTADKQGLYRSDNHAWLFGWKKGSVFQAGPSTAMN WYYTS 402
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     301 VYSPSSKTTWTS L PNAKVNPMLTADKQGLYRSDNHAWLFGWKKGSVFQAGPSTAMN WYYTS 360

Qy     403 GSGDVKSAGKRQSNRGVAPDAMCGNAV MYDAVGKILTFGGSPDYQSDATTN AHIITLG 462
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     361 GSGDVKSAGKRQSNRGVAPDAMCGNAV MYDAVGKILTFGGSPDYQSDATTN AHIITLG 420

Qy     463 EPGTSPNTVFASNGLYFARTFHTSVVLPD GSTFITGGQRRGIPFEDSTPVFTPEIYVPEQ 522
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     421 EPGTSPNTVFASNGLYFARTFHTSVVLPD GSTFITGGQRRGIPFEDSTPVFTPEIYVPEQ 480

Qy     523 DTFYKQNPNSIVRVYHSIS LLLPDGRVFN GGGGLCGDCTTNHFDAQIFT PNYLYNSNGNL 582
         ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     481 DTFYKQNPNSIVRVYHSIS LLLPDGRVFN GGGGLCGDCTTNHFDAQIFT PNYLYNSNGNL 540

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Qy 583 ATRPKITRTSTQSVKVGGRITISTDSSISKASLIRYGTATHTVNTDQRRIPLTLTNNGN 642  
|||||  
Db 541 ATRPKITRTSTQSVKVGGRITISTDSSISKASLIRYGTATHTVNTDQRRIPLTLTNNGN 600  
Qy 643 SYSFQVPSDSGVALPGYWMLFVMNSAGVPSVASTIRVTQ 681  
|||||  
Db 601 SYSFQVPSDSGVALPGYWMLFVMNSAGVPSVASTIRVTQ 639